

## Material useful for making bone replacement implants comprises nonmetallic inorganic filler particles embedded in a laser-sinterable biocompatible polymer matrix

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 - european: **A61F2/28; A61F2/30M4; A61L27/44A; A61L27/44R; A61L27/46; B29C67/00L**  
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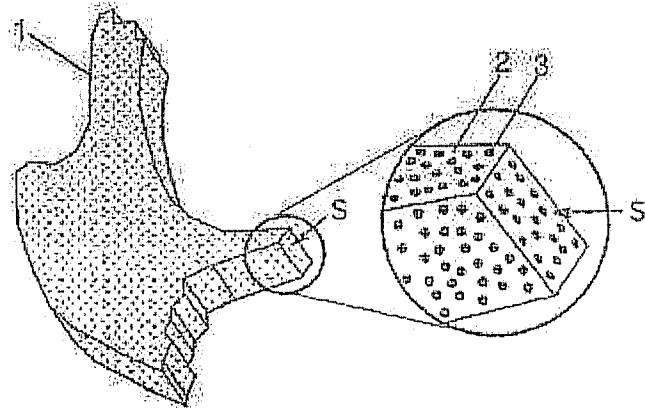
**Cited documents:**

DE19728131 (A1)  
 DE4400073 (A1)  
 DE4230339 (A1)  
 DE4219321 (A1)  
 DE4029714 (A1)

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### Abstract of DE 10055465 (A1)

Bone replacement material (1) comprises nonmetallic inorganic filler particles (3) embedded in a laser-sinterable biocompatible polymer matrix (2). Independent claims are also included for the following: (1) (1) a process for producing a bone replacement implant, comprising: (a) preparing (1) as a powder mixture; (b) depositing a layer of the powder; (c) laser-sintering the layer according to predetermined implant geometry data; and (d) repeating step (b) and (c); and (2) (2) a bone implant comprising (1) in which the filler particles on the surface are only partially embedded in the matrix.



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